

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2004/035145

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B60J5/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B60J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 199 38 511 A1 (WAGON AUTOMOTIVE GMBH) 1 February 2001 (2001-02-01)	1,2
Y	column 7, line 25 - line 44 figures 1,2	3,4
Y	US 6 053 562 A (BEDNARSKI ET AL) 25 April 2000 (2000-04-25) column 5, line 4 - line 15 claim 2; figure 5	3,4
Y	DE 197 13 317 A1 (YMOS AG INDUSTRIEPRODUKTE, 63179 OBERTSHAUSEN, DE; WAGON AUTOMOTIVE GM) 1 October 1998 (1998-10-01) column 2, line 21 - line 35 column 3, line 17 - line 19 figure 1	1,2
	----- --/--	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

1 March 2005

Date of mailing of the international search report

09/03/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Verkerk, E

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2004/035145

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	DE 196 15 540 A1 (MERCEDES-BENZ AKTIENGESELLSCHAFT, 70327 STUTTGART, DE) 30 April 1997 (1997-04-30) column 2, line 59 - column 3, line 15 figures 1-6 -----	1,2
A	DE 200 01 554 U1 (WAGON AUTOMOTIVE GMBH) 30 March 2000 (2000-03-30) page 2, paragraph 9 figure 1 -----	1
A	US 2002/060479 A1 (TOLINSKI ROCH J ET AL) 23 May 2002 (2002-05-23) claim 6; figures 2,3 -----	1
A	US 3 612 601 A (JOHN FARMINGTON HIMKA ET AL) 12 October 1971 (1971-10-12) column 2, line 8 - line 25 figures 1-3 -----	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/035145

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 19938511	A1	01-02-2001	DE 29924008 U1	06-09-2001
US 6053562	A	25-04-2000	NONE	
DE 19713317	A1	01-10-1998	NONE	
DE 19615540	A1	30-04-1997	NONE	
DE 20001554	U1	30-03-2000	NONE	
US 2002060479	A1	23-05-2002	US 2002185894 A1	12-12-2002
			US 2003085594 A1	08-05-2003
			US 2004232732 A1	25-11-2004
			EP 1207067 A2	22-05-2002
			EP 1264720 A2	11-12-2002
US 3612601	A	12-10-1971	NONE	